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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,297	09/21/2005	Raymond Andrieu	LEMAN.001APC	1931
20995 7590 04/13/2009 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			EXAMINER	
			SCHILLINGER, ANN M	
FOURTEENTH FLOOR IRVINE, CA 92614		ART UNIT	PAPER NUMBER	
			3774	
			NOTIFICATION DATE	DELIVERY MODE
			04/13/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)		
	10/550,297	ANDRIEU ET AL.		
Office Action Summary	Examiner	Art Unit		
	ANN SCHILLINGER	3774		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 30 I This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 21-35 is/are pending in the application 4a) Of the above claim(s) is/are withdrage 5) Claim(s) is/are allowed. 6) Claim(s) 21-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	awn from consideration.			
9)☐ The specification is objected to by the Examin	er.			
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-23, 28, and 31-35 are rejected under 35 U.S.C. 103(a) as being anticipated by Moe et al. (US Pub. No. 2003/0023302) in view of Angell et al. (US Pat. No. 3,983,581). Moe et al. discloses the following of the claimed invention: a biological prosthesis comprising an aortic valve (11; paragraphs 0004-0005); a tubular wall (12); and a reinforcement device (16) comprising a rod (13) implanted in the tubular outer wall. Claims 22, 23, 28, and 31-35 are disclosed as shown in Figures 1A and 1B.

Moe et al. does not teach obtaining an aortic valve from an animal. Angell et al. teaches a heart valve stent that uses porcine valves in col. 2, lines 48-59 and col. 3, lines 34-44 because the porcine valves are similar to human valves and easier to procure. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Moe et al. by using a porcine valve since they are similar to human valves and easier to procure.

Claims 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moe et al. in view of Angell et al., further in view of Rosen (US Pat. No. 4,345,340). Moe et al., as modified by Angell et al., teaches the invention substantially as claimed, however, they do not teach the use of commissure points. Rosen teaches a heart valve with commissure points in col.

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3, lines 5-15 for the purpose of securing the tubular wall to the reinforcement device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Moe et al. by using commissure points to secure the tubular wall to the reinforcement device.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moe et al. in view of in view of Angell et al., further in view of Gupta (US Pat. No. 4,851,000). Moe et al., as modified by Angell et al., teaches the invention substantially as claimed, however, they do not teach coating the reinforcement device with a fluoropolymer material. Gupta teaches a heart valve with a fluoropolymer material coating on the reinforcement device in col. 4, lines 40-50 for the purpose of making the prosthesis more durable. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Moe et al. by using a fluoropolymer material coating on the reinforcement device in order to make the prosthesis more durable.

Claims 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moe et al. in view of Angell et al., further in view of Pavcnik et al. (US Pub. No. 2001/0039450). Moe et al., as modified by Angell et al., teaches the invention substantially as claimed, however, they do not teach the intraparietal reinforcement devices having helical shapes. Pavcnik et al. teaches an implantable valve with an intraparietal reinforcement device that has a helical shape in Figures 2-8 and paragraphs 0008-0010 for the purpose of helping the prosthesis to better conform to the rounded contours of the vessel it is placed in. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the

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device of Moe et al. by giving the intraparietal reinforcement devices helical shapes in order to help the prosthesis to better conform to the rounded contours of the vessel it is placed in.

Response to Amendment

The Affidavit under 37 CFR 1.132 filed 12/29/2008 is insufficient to overcome the rejection of claims 21-35 because: the declaration states that the valve would result in failure due to the erosion of the leaflet tissue. However, as stated in the previous office action, a combination of references under 35 U.S.C. 103(a) may not be negated under the premise that a device would not work well. The rejection may be overcome if evidence is presented that the combination of prior art devices would not work at all, or that one of the references teaches away from the combination being made.

Response to Arguments

Applicant's arguments filed 3/30/2009 have been fully considered but they are not persuasive. Applicant's arguments regarding the Declaration filed 12/29/2008 have been addressed above. The Applicant further contends that Moe et al. does not disclose a rod penetrating the thickness of the tubular outer wall of the aortic valve. The examiner respectfully disagrees. Based on the Figure 1A, it appears that valve consists of a single body, and the lines located near element "12" define its parameters. In addition, there is no language in the specification stating that the valve is made of two separate layers, or how those layers would be attached to each other and/or the valve periphery.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ANN SCHILLINGER whose telephone number is (571)272-

6652. The examiner can normally be reached on Mon. thru Fri. 9 a.m. to 4 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Isabella can be reached on (571) 272-4749. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. S./

Examiner, Art Unit 3774

/DAVID ISABELLA/

Supervisory Patent Examiner, Art Unit 3774